

Syllabus**ISE215 Term 139: Network Client Administration**

Credit Hours: 4

Prerequisites: ISE101

Course Description

Students taking this course will obtain the knowledge and skills necessary to implement, administer, and troubleshoot a desktop operating system in a network environment.

Instructor Contact Information

Instructor Name	Gerard Arthus
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Course Length

The college evaluates each course in terms of quarter hours of credit. One unit of credit is usually equivalent to a minimum of ten academic instruction hours of lecture and examination, twenty hours of skill development, or thirty hours of externship, or a combination of the three. An academic instructional hour is fifty minutes.

This class will meet for the equivalent of a minimum of five (5) instructional hours or as otherwise scheduled by the college and at least in conformance with this minimum and the Syllabus. As specified by the Method of Instruction section of this Outline, the instructor will ensure that the total class sessions presented consist of a minimum of 27.5 direct faculty instruction hours and a maximum of 27.5 appropriate classroom activity hours.

All course offerings require outside preparation time, which is approximately two hours per lecture instructional hour and/or one hour per skill development instructional hour, depending on the background, interest, abilities, and motivation of the individual student.

Course Objectives

By the end of this course, you should be able to:

- 1 Identify the key features of each Microsoft Windows 7 Edition.
- 2 Understand new Windows 7 features

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- 3 Understand the Windows 7 Modular Architecture.
- 4 Understand the considerations for a Windows 7 Installation and how to choose the appropriate installation method.
- 5 Understand the limitations and benefits of the Windows Preinstallation Environment (PE) and use Windows PE to prepare a computer for Windows installation, to copy disk images from a network file server, and to initiate Windows Setup.
- 6 Understand and plan for Enterprise Deployment.
- 7 Understand image files.
- 8 Capture, modify and deploy Image Files
- 9 Understand File Systems, Disk Types, Partition Styles and Volume Types.
- 10 Understand and use Devices and Drivers.
- 11 Understand Windows 7 Networking Fundamentals and Connecting to a Network.
- 12 Understand the Windows Permission Architecture.
- 13 Manage NTFS Permissions.
- 14 Understand Folder Sharing in Windows 7
- 15 Share Folders with HomeGroups and Share the Public Folder.
- 16 Manage Share Permission and Combine Share and NTFS Permissions.
- 17 Understand Windows Print Architecture, add and share Local Printers and access a shared Printer.
- 18 Configure Printer Security.
- 19 Configure and manage Windows 7 applications including Internet Explorer and AppLocker. Use the Windows 7 Application Compatibility Toolkit to troubleshoot legacy application issues.
- 20 Update Windows 7, monitor and enhance Windows 7 performance and troubleshoot performance issues.
- 21 Understand, configure and manage Windows 7 local and domain users and local and domain groups. Configure and administer HomeGroup networking.
- 22 Configure User Rights, manage User Credentials. Understand the use of Smart Cards and configure and use Multifactor Authentication. Troubleshoot and resolve Authentication issues.
- 23 Configure and manage the User Desktop Environment.

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- 24 Troubleshoot and resolve Windows 7 issues using the Problem Reports and Solutions Control Panel and the Problem Step Recorder.
- 25 Remotely administer Windows 7 installations using Remote Assistance, Remote Desktop, Remote Assistance, PowerShell remote commands and WinRS.
- 26 Configure, use and secure Windows 7 Virtual Hard Drives for both online and offline access.
- 27 Backup and restore Windows 7.
- 28 Understand, configure and use specialized Windows 7 features for mobile computers including accessing, configuring and using Windows 7 Mobility Controls.
- 29 Understand, create, configure and use a Virtual Private Network (VPN).
- 30 Understand network infrastructure and configure and authenticate clients using Direct Access.

Gradebook

A student's performance in this course will be evaluated using a variety of factors listed below. Instructors must use a minimum of three (**homework, tests, and a final exam are required**), and it is recommended that instructors use all five areas in your evaluation.

The exact weight to be given to any particular area is determined by the instructor and will normally fall within the ranges listed below.

Area	Percentage for this Course	Suggested Range
Final Exam	25%	20 – 25%
Tests	40%	20 – 40%
Homework	15%	10 – 15%
Project/Research Paper	10%	20 – 25%

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Class Participation	10%	10 – 15%
TOTAL	100%	

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Letter Grade	Points	Explanation
A	94-100	Excellent
B	84-93	Above Average
C	74-83	Average
D	64-73	Below Average
F	63 & Below	Failure

Textbook & Instructional Material

70-680 Configuring Windows 7, Microsoft Official Academic Course with Wiley PLUS, Wiley Publishing, 2010

LabSim: 70-680 Configuring Windows 7, TestOut Corporation

The instructor might utilize additional instructional materials as provided by the publisher.

Course Outline**Term: 139**

Class Date: <u>Week 1 - 16 September 2013</u> Chapter 1: <i>Introducing Windows 7</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 1 and 2 all lab activities</u> <u>Review of virtualization and the installation of VMware and Windows 7 as a Virtual machine. Installing 'Greenshot' Screen Capture Application which will be used to record assignments and work for the projects.</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>

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Class Date: <u>Week 2 - 23 September 2013</u> Chapter 2: <i>Installing Windows 7</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 3 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>
Class Date: <u>Week 3 - 30 September 2013</u>	Homework Due Date: <u>By the end of the next</u>

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Chapter 3: <i>Deploying Windows 7</i>	<u>week</u>
In Class Activities	Homework
<u>Lesson 4 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>
Class Date: <u>Week 4 - 07 October 2013</u> Chapter 4: <i>Working with Devices</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 5 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>

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Class Date: <u>Class Date: Week 5 - 14 October 2013</u> Chapter 5: <i>Connecting to a Network</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 6 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>

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Class Date: <u>Class Date: Week 6 - 21 October 2013</u> Chapter 6: <i>Sharing Resources</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 7 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>
Class Date: <u>Class Date: Week 6 - 21 October 2013</u> Chapter 7: <i>Working with Applications</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 8 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>

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Class Date: <u>Class Date: Week 7 - 28 October 2013</u> Chapter 8: <i>Managing and Monitoring Windows 7 Performance</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 9 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>

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Class Date: <u>Class Date: Week 7 - 28 October 2013</u> Chapter 9: <i>Working with Domains, Workgroups, and HomeGroups</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 10 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>
Class Date: <u>Class Date: Week 8 - 04 November 2013</u> Chapter 10: <i>Securing Windows 7</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Lesson 11 and 12 all lab activities</u>	<u>Knowledge Assessment questions fill in the blank</u>

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<u>Final Project topic is assigned this week and final exam is open.</u>	<u>and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>
Class Date: <u>Class Date: Week 8 - 04 November</u> Chapter 11: <i>Administering Windows 7</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>Final exam and final Project due</u>	<u>Knowledge Assessment questions fill in the blank and true and false</u> <u>Read all materials assigned on the web-assist site and do all discussion forums and quizzes if available.</u>

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Class Date: <u>Class Date: Week 9 - 11 November</u> Chapter 12: <i>Using Mobile Computers</i>	Homework Due Date: <u>By the end of the next week</u>
In Class Activities	Homework
<u>No class</u>	

This course has an in-class final exam. Final exam date: 18 November 2013

Additional Final Exam Information:

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Method of Instruction

Instructional techniques must be appropriate, and at a collegiate level, to the specific goals and objectives cited above. Students and instructors must have a clear understanding of the goals and time requirements of this course, the nature of the course context, and method of evaluation.

This course has two distinct but related instructional phases. The first component constitutes a minimum of 27.5 direct faculty instruction hours. This component is the lecture series and provides instruction in theory, principles or practices of the course. The second component constitutes a maximum of 27.5 appropriate classroom activity hours. This component is the skill development phase of the course and provides students the opportunity to apply knowledge gained in the lecture series. Method of instruction must fulfill the intended learner outcomes and competencies stated in the course goals and objectives and are appropriate to the capabilities of the students. For career oriented courses, the instructor must demonstrate that an effective relationship exists between curricular content and current practices in the field.

Additional Class Notes

Go to <http://www.openeducation.org/moodle> to use the Web-Assisted site for this course. Quizzes and discussion forums will be completed on-line at this site.